

CENTER ROCK FORCE®

HIGH PERFORMANCE RF HAMMER SERIES



Center Rock Inc's High Performance Down Hole Drills and Bits

The Center Rock Force® line of High Performance Down Hole drills and bits are available to suit a broad range of hole sizes and applications. All Center Rock Force® hammers feature a high efficiency and tuneable valved air cycle to optimize performance on your compressor. Many models also feature a heat resistant steel valve which keeps on working even in the most demanding quarry and mining applications. Additionally, most models feature reversible casings so you can get the most footage from your hammer. For high air flow deep hole applications accessories such as bit retrieval systems and jetted backheads are available.

Center Rock Inc.

Our technology optimizes your impact.

Phone: 814.267.7100 Toll Free: 888.267.9004 CENTERROCK.COM



**Drill Faster
Run Harder
Work Smarter**

MODEL	RF35-STD		RF40-STD		RF50-STD		RF55-STD		RF60-STD		RF65-STD		RF80-STD		RF88-STD		RF100-STD		RF120-STD		RF200-STD		RF200S-STD	
	91002395	91001602	91001174	91000917	91001065	91000912	91001192	91001223	91001593	91001930	91001256	91002141												
DESCRIPTION	RF35 with 2-3/8 API reg pin connection	RF40 with 2-3/8 API reg pin connection	RF50 with 3-1/2 API reg pin connection	RF55 with 3-1/2 API reg pin connection & cutting backhead	RF60 with 3-1/2 API reg pin connection	RF65 with 3-1/2 API reg pin connection & cutting backhead	RF80 with 4-1/2 API reg pin connection	RF88 with 4-1/2 API reg pin connection	RF100 with 6-5/8 API reg pin connection	RF120 with 6-5/8 API reg pin connection	RF200 with 8-5/8 API reg pin connection and jetted backhead	RF200S with 8-5/8 API reg pin connection and jetted backhead												
APPLICATION SUITABILITY																								
Geotechnical/Foundation	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓												
Waterwell/Geothermal	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓												
Quarry/Mining	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓												
Mineral Exploration			✓																					
Oil/Gas																								
AVAILABLE OPTIONS																								
Bit retainer system					✓																			
Jetted backhead					✓																			
Deep-hole design			✓																					
GENERAL SPECIFICATIONS																								
Connection	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric	Imperial Metric												
2-3/8 API reg pin	DHD 35	CR40	QL50	QL50	QL60	QL60	QL80	CR88	6-5/8 API Reg Pin	6-5/8 API reg pin	8-5/8 API reg pin	8-5/8 API reg pin												
Bit Shank	NO	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES												
Reversible casing																								
Outside diameter (in/mm)	3.19	4.00	4.75	5.00	5.44	5.88	7.13	7.75	9.0	9.0	11.20	15.60												
Length w/o bit, shoulder to shoulder (in/mm)	30.0	36.8	42.4	40.1	42.7	41.8	57.2	58.9	59.9	59.9	72.9	67.2												
Length with bit extended (in/mm)	33.9	40.8	46.6	44.6	47.8	46.0	63.7	66.8	69.0	69.0	83.6	78.5												
Length with bit retracted (in/mm)	32.6	39.7	45.4	43.3	46.4	44.9	61.9	64.9	67.1	67.1	81.4	76.2												
Weight w/o bit (pds/kgs)	47.7	21.7	112	145	186	219	443	518	740.0	740.0	1358	2663												
Backhead across flats (in)	1.25 X 2.5 AF	1.5 X 3 AF	2 X 3-1/2 AF	2 X 3-1/2 AF	2-1/2 X 4 AF	2-1/4 X 3-1/2 AF	2-1/2 X 5-7/8 AF	2 X 6-7/16 AF	2-1/2 X 7-1/2 AF	2-1/2 X 9-1/4 AF	1" Holes	1" Holes												
Minimum bit size (in/mm)	3.50	4.50	5.25	5.75	6.00	6.50	7.88	8.75	9.63	9.63	12.25	17.50												
Maximum bit size (in/mm)	4.25	5.00	6.00	6.00	6.75	6.75	10.00	11.00	12.25	12.25	22.00	26.00												
Bore (in/mm)	2.625	3.190	3.890	4.125	4.500	4.875	5.875	6.410	7.54	7.54	9.25	12.25												
Piston weight (pds/kgs)	10.5	4.8	31.9	31.5	40.0	45	107.2	117	178.0	178.0	304	610												
Stroke (in/mm)	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.0	4.0	4.00	4.00												
Maximum pressure (psig/bar)	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	250.0												
Maximum choke diameter (in/mm)	0.25	0.25	0.50	0.50	0.38	0.00	0.00	0.00	0.00	0.00	0.88	1.40												
Make-up torque (ft-lb & N-m)	3000	4062	5000	6770	6000	8124	8000	9000	10000	12000	18000	24372												
AIR CONSUMPTION																								
100 PSIG/6.9 bar (scfm/m ³ /min)	142	4.0	202	5.7	305	8.6	358	560	581	581	909	1584												
100 psi (bpm)	1289	1226	1116	1116	1122	1350	830	968	950	950	585	701												
150 psi/10.3 bar (scfm/m ³ /min)	219	6.2	284	8.0	431	12.2	571	826	1000	1000	1336	2470												
150 psi (bpm)	1509	1353	1266	1266	1301	1456	947	1050	1050	1050	695	807												
200 psi/13.8 bar (scfm/m ³ /min)	288	8.1	386	10.9	561	15.3	808	1092	1400	1400	1811	3389												
200 psi (bpm)	1699	1479	1401	1401	1453	1561	1063	1132	1150	1150	805	923												
250 psi/17.2 bar (scfm/m ³ /min)	348	9.8	488	13.8	695	19.6	1067	1358	1781	1781	2333	4341												
250 psi (bpm)	1858	1606	1521	1521	1576	1667	1180	1215	1250	1250	915	1049												
300 psi/20.7 bar (scfm/m ³ /min)	400	11.3	590	16.7	832	23.5	1350	1624	2143	2143	2903	5324												
300 psi (bpm)	1,987	1733	1626	1626	1671	1773	1297	1297	1350	1350	1025	1185												
350 psi/24.1 bar (scfm/m ³ /min)	444	12.5	691	19.5	973	27.5	1656	1890	2486	2486	3519	6340												
350 psi (bpm)	2086	2086	1860	1716	1738	1878	1414	1379	1450	1450	1135	1331												